

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Ugo Conti

Group Art Unit: 2862

Serial No.: To be Assigned

Examiner: Snow, Walter E.

Filed: Herewith

Atty. Dkt. No.: 23.0002D2

For: METHOD AND APPARATUS FOR  
MEASURING CHARACTERISTICS OF  
GEOLOGICAL FORMATIONS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

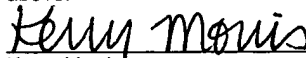
Sir:

EXPRESS MAIL MAILING LABEL

NUMBER EV399694533US

DATE OF DEPOSIT January 8, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Services "Express Mail Post Office to Addressee Service" on the date above.

  
Kerry Morris

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

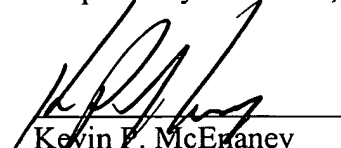
In accordance with 37 C.F.R. §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

This application is a divisional application of Serial No. 09/879,252, filed December 16, 2001, and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of documents that were previously submitted to the Patent and Trademark Office in prior application Serial No. 09/879,252 are not enclosed.

Applicant respectfully requests that the listed documents be made of record in the present case.

Schlumberger Technology Corporation  
Sugar Land Product Center  
Intellectual Property Law and Contracts  
P.O. Box 2175  
Houston, Texas 77252-2175  
(281) 285-7325  
(281) 285-8821 Fax  
Date Jan 8, 2004

Respectfully submitted,

  
Kevin F. McEraney  
Reg. No. 46,258  
Attorney for Assignee

FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED  
BY APPLICANT  
(Use several sheets if necessary)

ATTY. DOCKET NO.  
23.0002 CIP

SERIAL NO.  
Unknown

APPLICANT:  
Ugo Conti

FILING DATE:  
Unknown

GROUP  
Unknown

## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	AA	5,646,533	07/08/97	Locatelli et al.
	AB			
	AC			
	AD			
	AE			
	AF			

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation	
					Yes	No
	AG					
	AH					

## OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

	AI	Nekut, Crosswell Electronmagnetic Tomography in Steel-Cased Wells, May-Ju 1995, Geophysics, Vol. 60, No. 3, pp. 912-920
	AJ	
	AK	
	AL	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

<b>FORM PTO-1449 (Modified)</b> <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)</b>			<b>Attorney Docket No.: 10917-000420US</b>		<b>Application No.: --Unknown--</b>	
<b>Applicant: UGO CONTI</b>			<b>Filing Date: --Herewith--</b>		<b>Group:</b>	
<b>Reference Designation</b>			<b>U.S. PATENT DOCUMENTS</b>			<b>Page 1</b>
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
1	4,748,415	05/31/88	Vail, III	324	339	
2	4,901,023	02/13/90	Vail, III	324	339	
3	4,903,207	02/20/90	Alger et al.	364	422	04/14/88
4	5,018,590	05/28/91	Weldon	175	105	02/08/90
5	5,038,107	08/06/91	Gianzero et al.	324	339	
6	5,065,100	11/12/91	Vail, III	324	339	
7	5,130,655	07/14/92	Conti	324	258	
8	5,157,392	10/20/92	Zimmer	340	853.9	10/01/90
9	5,260,661	11/09/93	Vail, III	324	339	
10	5,283,520	02/01/94	Martin et al.	324	220	
11	5,426,367	06/20/95	Martin et al.	324	339	
12	5,586,082	12/17/96	Anderson et al.	367	73	03/02/95
13	5,621,169	04/15/97	Harris et al.	73	152.18	09/10/96
14	5,646,533	07/08/97	Locatelli et al.	324	339	
15	5,654,639	08/05/97	Locatelli et al.	324	339	
<b>FOREIGN PATENT DOCUMENTS</b>						
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
16	Uchida, T. et al, "Effect of a steel casing on crosshole EM measurements," <u>SEG Annual Meeting</u> , Expanded Abstract, Houston, Texas, 1991					
17	Wilt, M. et al, "Crosshole electromagnetic tomography: A new technology for oil field characterization," <u>The Leading Edge</u> , 1995, pp. 173-177.					
18	Wilt, M.J. et al. "Crosswell electromagnetic tomography: System design consideration and field results," <u>Geophysics</u> , Vol 60, Bi, 3m 1995.					
19	Wilt, Michael et al., "Electromagnetic methods for development and production: State of the art," <u>The Leading Edge</u> , pp. 487-490 (April 1998)					
20	Wu, Xu et al, "Influence of steel casings on electromagnetic signals," <u>Geophysics</u> , Vol 59, No. 3, 1994.					
21	Augustin, A.M. et al, "A theoretical study of surface-to-borehole electromagnetic logging in cased holes," <u>Geophysics</u> , Vol 54, No. 1, 1989.					
<b>EXAMINER</b>			<b>DATE CONSIDERED</b>			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449 (Modified)</b> <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)</b>			Attorney Docket No.: 10917-000410US		Application No.: 09/290,156	
			Applicant: UGO CONTI			
			Filing Date: April 12, 1999		Group:	
Reference Designation			<b>U.S. PATENT DOCUMENTS</b>			Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
_____ 1	4,748,415	05/31/88	Vail	324	339	04/29/86
_____ 2	4,901,023	02/13/90	Vail	324	339	05/31/88
_____ 3	5,038,107	08/06/91	Gianzero et al.	324	339	12/21/89
_____ 4	5,065,100	11/12/91	Vail	324	339	02/05/90
_____ 5	5,130,655	07/14/92	Conti	324	258	03/20/91
_____ 6	5,260,661	11/09/93	Vail	324	339	11/12/91
_____ 7	5,283,520	02/01/94	Martin	324	220	04/04/91
_____ 8	5,426,367	06/20/95	Martin	324	339	01/12/94
_____ 9	5,646,533	07/08/97	Locatelli et al.	324	339	12/11/95
_____ 10	5,654,639	08/05/97	Locatelli et al.	324	339	12/13/95
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
_____						
_____						
_____						
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
_____ 11	Wilt, Michael et al., <u>Electromagnetic methods for development and production: State of the art</u> , The Leading Edge, pp. 487-490 (April 1998)					

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449 (Modified)</b> <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)</b>			<b>Attorney Docket No.: 10917-000410US</b>		<b>Application No.: 09/290,156</b>	
<b>Applicant: Ugo Conti</b>			<b>Filing Date: April 12, 1999</b>		<b>Group: 2856</b>	
<b>Reference Designation</b>			<b>U.S. PATENT DOCUMENTS</b>			<b>Page 1</b>
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
___ AA	4,903,207	02/20/90	Alger et al.	364	422	04/14/88
___ AB	5,018,590	05/28/91	Weldon	175	105	02/08/90
___ AC	5,157,392	10/20/92	Zimmer	340	853.9	10/01/90
___ AD	5,586,082	12/17/96	Anderson et al.	367	73	03/02/95
___ AE	5,621,169	04/15/97	Harris et al.	73	152.18	09/10/96
___ AF						
<b>FOREIGN PATENT DOCUMENTS</b>						
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
___ AG						
___ AH						
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
___ AI	Toshihiro Uchida et al, <u>Effect of a steel casing on crosshole EM measurements</u> , SEG Annual Meeting, Expanded Abstract, Houston, Texas, 1991					
___ AJ	Wilt M. Lee et al, <u>Crosshole electromagnetic tomography: A new technology for oil field characterization</u> , The Leading Edge, 1995, pp 173-177.					
___ AK	M.J. Wilt et al. <u>Crosswell electromagnetic tomography: System design consideration and field results</u> : Geophysics, Vol 60, Bi, 3m 1995.					
___ AL	Xu Wu et al, <u>Influence of steel casings on electromagnetic signals</u> : Geophysics, Vol 59, No. 3, 1994.					
___ AM	A.M. Augustin et al, <u>A theoretical study of surface-to-borehole electromagnetic logging in cased holes</u> : Geophysics, Vol 54, No. 1, 1989.					
<b>EXAMINER</b>			<b>DATE CONSIDERED</b>			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.